

Title (en)
SOLID ELECTROLYTE FUEL CELL

Title (de)
FESTELEKTROLYT-BRENNSTOFFZELLE

Title (fr)
PILE À COMBUSTIBLE À ÉLECTROLYTE SOLIDE

Publication
EP 2416424 B1 20160504 (EN)

Application
EP 10758818 A 20100331

Priority
• JP 2010055914 W 20100331
• JP 2009087231 A 20090331

Abstract (en)
[origin: EP2416424A1] Provides a solid oxide fuel cell with which product life can be extended while a practical output power is maintained. The present invention is a solid oxide fuel cell, having a fuel cell module (2), a fuel supply device (38), an oxidant gas supply device (45), and a controller (110) for controlling the fuel supply amount; whereby the controller is furnished with a degradation determining circuit (110a) for determining degradation in a fuel cell module, and with a fuel correction circuit (110b) for correcting operating conditions based on a degradation determination; the fuel correction circuit can execute an increasing correction mode for increasing the fuel supply amount supplied to the fuel cell module so that rated output power is maintained, or can execute a decreasing correction mode for reducing rated output voltage so that the fuel supply amount is reduced; there is also a mode selection device (110c) for selecting correction modes.

IPC 8 full level
H01M 8/04 (2006.01); **H01M 8/12** (2006.01)

CPC (source: EP US)
H01M 8/04559 (2013.01 - EP US); **H01M 8/04589** (2013.01 - EP US); **H01M 8/04619** (2013.01 - EP US); **H01M 8/04753** (2013.01 - EP US); **H01M 8/0494** (2013.01 - EP US); **H01M 2008/1293** (2013.01 - EP US); **Y02E 60/50** (2013.01 - EP)

Cited by
EP2416426A4

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2416424 A1 20120208; EP 2416424 A4 20130403; EP 2416424 B1 20160504; CN 102414896 A 20120411; CN 102414896 B 20140716; JP 2010238616 A 20101021; JP 4656610 B2 20110323; US 2012021317 A1 20120126; US 8492041 B2 20130723; WO 2010114047 A1 20101007

DOCDB simple family (application)
EP 10758818 A 20100331; CN 201080019141 A 20100331; JP 2009087231 A 20090331; JP 2010055914 W 20100331; US 201013262174 A 20100331